



## SERVICE NOTE

**EFFECT:** ZAXXON™

**NUMBER:** 012

In the event that your ZAXXON Joystick Assembly (P/N 800-3272) is tending to bind or seize up, the simple procedure outlined in the following pages provides a solution; (installation of a flat washer under the Shaft Ring):

SEGA Electronics, Inc., 16250 Technology Drive, San Diego, CA. 92127-1985

Toll-free technical assistance outside CA.: 1-800-854-1938

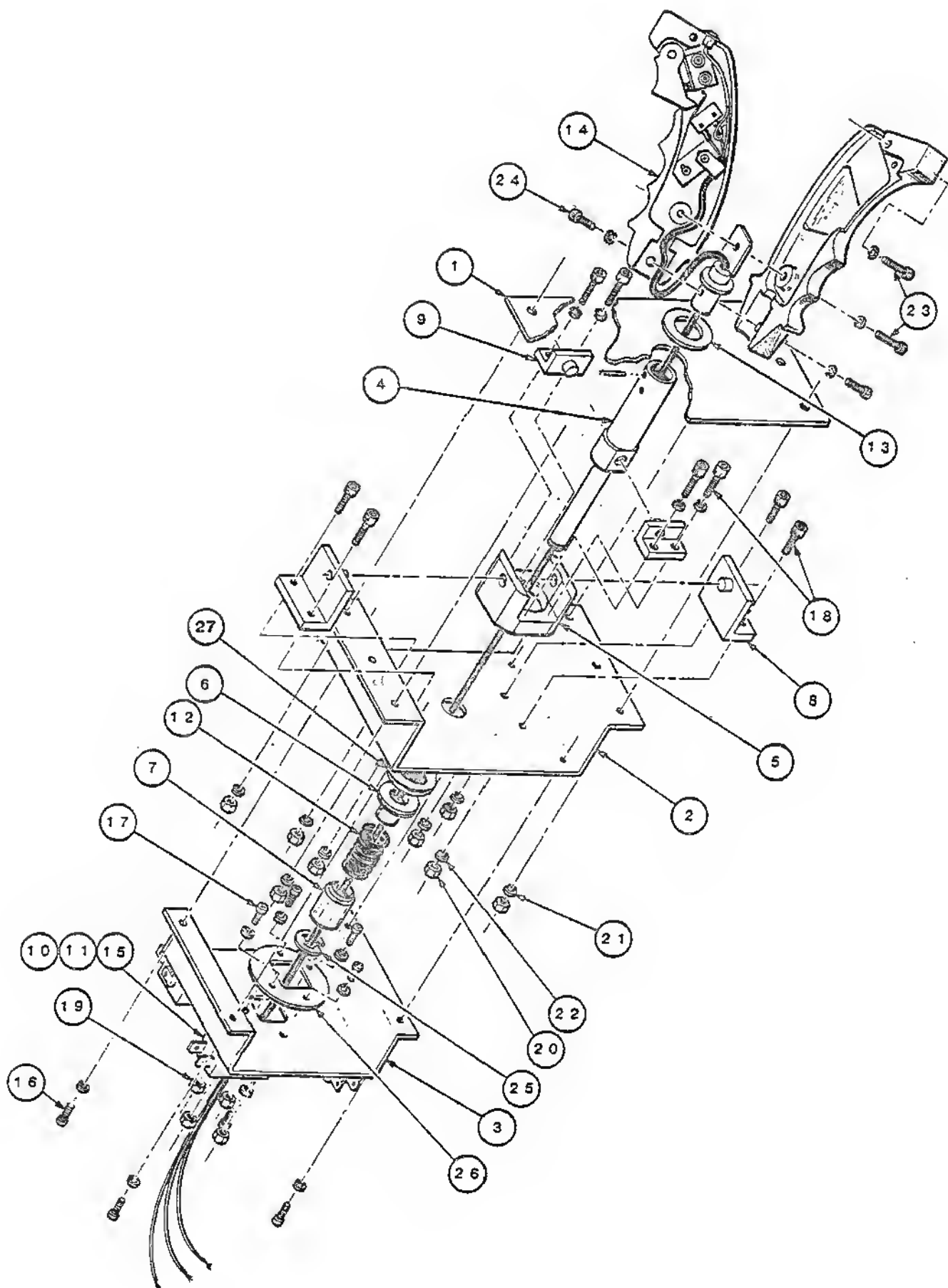
Toll-free technical assistance inside CA.: 1-800-722-8576

ZAXXON™ Joystick Anti-Galling  
Modification Instructions

1. Turn on the game to be retro-fitted, manipulate the joystick handle (ITEM NO. 14) to verify proper operation of the 8-way player input assembly (P/N 834-0236), or if the joystick assembly is seized completely, actuate the four micro-switches from underneath the control panel.
2. Turn the game off and proceed. The only part required is a 7/16" I.D. steel USS flat washer. The tools you will need are: a small phillips screwdriver, a small flat-head screwdriver, a pair of dikes (wire-cutters), and a pair of crimp pliers if you intend to use blind crimps in Step 8.
3. With the door to the game electronics compartment open, reach under the control panel and flip the latches on both sides. The panel will now swing out towards you. Disconnect the control panel harness connector on the right-side, slide the spring-loaded pins on both sides, remove the control panel and set on a good working surface (placed upside down on a padded armchair is ideal, allowing you to approach the underside of the panel with ample joystick clearance beneath).
4. Notice at the end of the joystick assembly the three wires exiting the shaft (ITEM NO. 4). Tag each wire TWICE (one wire with two A's or 1's, another wire with two B's or 2's, etc.) to ease later identification for re-wiring, and cut each wire BETWEEN the two tags.
5. Next, remove the four phillips screws (ITEM NO. 16) securing the micro-switch bracket (bracket B, ITEM NO. 3) and set aside for re-use. Lift the bracket (ITEM NO. 3) up off of the shaft, and carefully set it back out of the way.
6. At this point, applying pressure on the spring holder (ITEM NO. 7) with one hand, use the flat-head screwdriver with your other hand to pry (in a twisting motion) the 9mm E-washer (ITEM NO. 25) off of the main shaft (ITEM NO. 4). The Compression Spring (ITEM NO. 12) together with the Spring Holder and Shaft Ring (ITEM NO. 6) are now free to lift off of the Main Shaft. Install the 7/16" flat washer now, over the shaft, resting on the Joystick Bracket (ITEM NO. 2). Re-install the Shaft Ring, Compression Spring, Spring Holder and E-washer in the reverse order of their removal. ITEM NO. 27 is the flat-washer.
7. Re-position the micro-switch bracket B (ITEM NO. 3) over the shaft

(ITEM NO. 4) and re-secure the four phillips screws (ITEM NO. 16) removed in Step 5. NOTE: These are metric screws, and if one is lost or damaged, it may be replaced with a 6-32 thread forming screw.

8. Next, strip approximately 3/8" of insulation from the ends of all six wires (three wires from the shaft, and three from the control panel). Secure all three connections with blind crimps or wire nuts, according to the tags affixed in Step 4.
9. Re-position the now complete control panel assembly to the front of the game and slide the spring-loaded pins back into place. Replace the control panel harness connector, rotate the panel into its operating position and secure the side latches.
10. Close the game electronics compartment door, turn the game on and verify proper operation of your joystick assembly.
11. If you have any questions, please call SEGA Electronics Customer Service:  
1-800-854-1938 toll-free outside California  
1-800-722-8576 toll-free inside California



## JOYSTICK ASSEMBLY

DRAWING NUMBER 800-3272

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	117-0207-00	Base Plate, Joystick
2	105-0278-00	Bracket, Joystick
3	105-0279-00	Bracket B, Joystick
4	250-0556-00	Main Shaft, Joystick
5	601-0775-00	Shaft Supporter, Joystick
6	601-0776-00	Shaft Ring, Joystick
7	109-0059-00	Spring Holder, Joystick
8	250-0560-00	Bracket C w/Pin, Joystick
9	250-0555-00	Bracket D w/Pin, Joystick
10	310-0012-00	Paper Insulator
11	509-0149-00	Micro-switch
12	125-0101-00	Compression Spring
13	117-0206-00	Slider Plate, Joystick
14	800-3271-00	Handle Assembly
15	285-0002-14	SCR M3-0.5 X 14 Lg
16	285-0004-08	SCR M4-0.7 X 8 Lg
17	285-0004-10	SCR M4-0.7 X 10 Lg
18	285-0125-16	SCR M5-0.8 X 16 Lg Sckt Hd Cap
19	287-0072-04	Nut M4-0.7
20	287-0076-05	Nut M5-0.8 Hex
21	287-0061-04	Washer M4 Lock
22	287-0061-05	Washer M5 Lock
23		
24	285-0165-10	SCR M5-0.8 X 10 Lg
25	280-0469-00	E-washer 9mm
26	117-0208-00	Guide Plate, 8-way Joystick
27	283-0060-46	Washer, Flat, USS steel